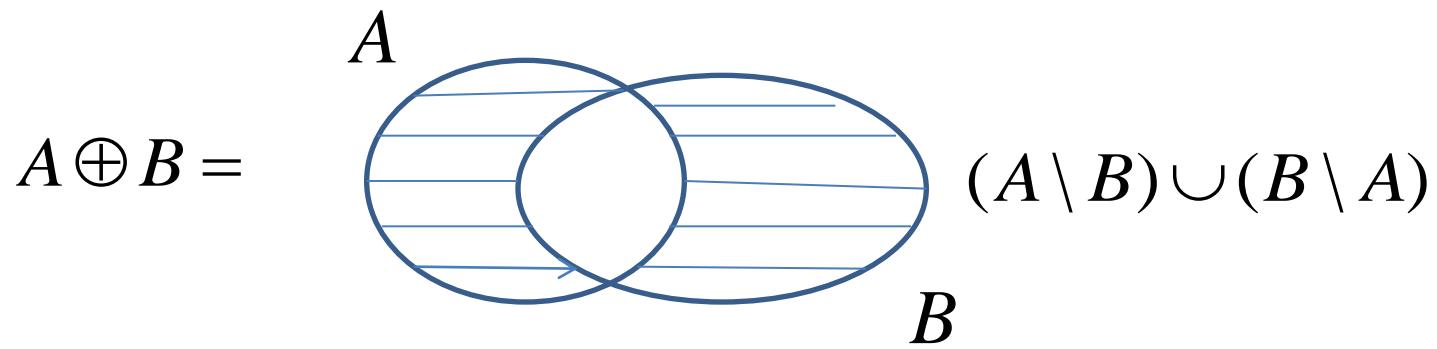


# **APPROXIMATIONS OF ARBITRARY RELATIONS BY RELATIONS WITH SPECIFIC PROPERTIES: TOWARDS A METRIC**

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$\alpha$ - a predicate (property), e.g., axioms for equivalence relation

$$err_{\alpha}^1(A) = \min\{|A \oplus B| : B \text{ satisfies } \alpha\}$$

$$sim_{\alpha}(A) = \max\{|A \cap B| : B \text{ satisfies } \alpha\}$$



$$error_{\alpha}(A) = \frac{err_{\alpha}^1(A)}{sim_{\alpha}(A)} \text{ or else ?}$$

**THANK YOU !**